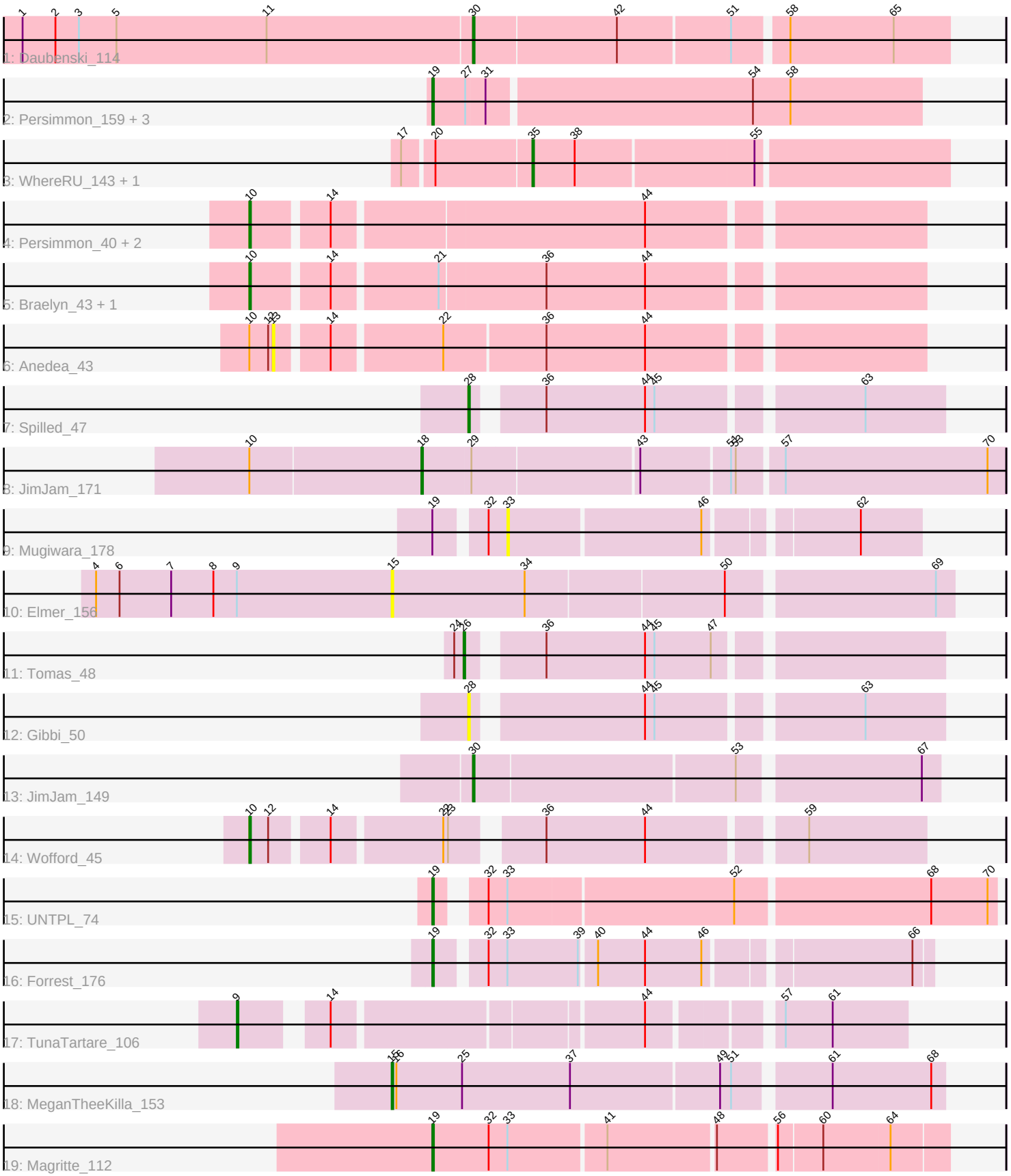
Pham 163869


1: Daubenski_114
2: Persimmon_159 + 3
3: WhereRU_143 + 1
4: Persimmon_40 + 2
5: Braelyn_43 + 1
6: Anedea_43
7: Spilled_47
8: JimJam_171
9: Mugiwara_178
10: Elmer_156
11: Tomas_48
12: Gibbi_50
13: JimJam_149
14: Wofford_45
15: UNTPL_74
16: Forrest_176
17: TunaTartare_106
18: MeganTheeKilla_153
19: Magritte_112

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 163869 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163869 has 26 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Daubenski_114
• Track 2 : Persimmon_159, Navo_162, Braelyn_161, WhereRU_163
• Track 3 : WhereRU_143, Persimmon_141
• Track 4 : Persimmon_40, WhereRU_43, Leo04_45
• Track 5 : Braelyn_43, Navo_44
• Track 6 : Anedea_43
• Track 7 : Spilled_47
• Track 8 : JimJam_171
• Track 9 : Mugiwara_178
• Track 10 : Elmer_156
• Track 11 : Tomas_48
• Track 12 : Gibbi_50
• Track 13 : JimJam_149
• Track 14 : Wofford_45
• Track 15 : UNTPL_74
• Track 16 : Forrest_176
• Track 17 : TunaTartare_106
• Track 18 : MeganTheeKilla_153
• Track 19 : Magritte_112

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 19, it was called in 5 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Braelyn_161, Forrest_176, Magritte_112, Navo_162, Persimmon_159, UNTPL_74, WhereRU_163,

Genes that have the "Most Annotated" start but do not call it:
• Mugiwara_178,

Genes that do not have the "Most Annotated" start:

• Anedea_43, Braelyn_43, Daubenski_114, Elmer_156, Gibbi_50, JimJam_149, JimJam_171, Leo04_45, MeganTheeKilla_153, Navo_44, Persimmon_141, Persimmon_40, Spilled_47, Tomas_48, TunaTartare_106, WhereRU_143, WhereRU_43, Wofford_45,

Summary by start number:

Start 9:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 50.0% of time when present
• Phage (with cluster) where this start called: TunaTartare_106 (BK1),

Start 10:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 4 of 17
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Braelyn_43 (BE1), Leo04_45 (BE1), Navo_44 (BE1), Persimmon_40 (BE1), WhereRU_43 (BE1), Wofford_45 (BE2),

Start 13:
• Found in 1 of 26 (3.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anedea_43 (BE1),

Start 15:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elmer_156 (BE2), MeganTheeKilla_153 (BK1),

Start 18:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JimJam_171 (BE2),

Start 19:
• Found in 8 of 26 (30.8%) of genes in pham
• Manual Annotations of this start: 5 of 17
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Braelyn_161 (BE1), Forrest_176 (BK1), Magritte_112 (singleton), Navo_162 (BE1), Persimmon_159 (BE1), UNTPL_74 (BH), WhereRU_163 (BE1),

Start 26:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_48 (BE2),

Start 28:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibbi_50 (BE2), Spilled_47 (BE2),

Start 30:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daubenski_114 (BE1), JimJam_149 (BE2),

Start 33:
• Found in 4 of 26 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Mugiwara_178 (BE2),

Start 35:
• Found in 2 of 26 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Persimmon_141 (BE1), WhereRU_143 (BE1),

Summary by clusters:

There are 5 clusters represented in this pham: BE2, singleton, BE1, BH, BK1,

Info for manual annotations of cluster BE1:
•Start number 10 was manually annotated 3 times for cluster BE1.
•Start number 19 was manually annotated 2 times for cluster BE1.
•Start number 30 was manually annotated 1 time for cluster BE1.
•Start number 35 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 10 was manually annotated 1 time for cluster BE2.
•Start number 18 was manually annotated 1 time for cluster BE2.
•Start number 26 was manually annotated 1 time for cluster BE2.
•Start number 28 was manually annotated 1 time for cluster BE2.
•Start number 30 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BH:
•Start number 19 was manually annotated 1 time for cluster BH.

Info for manual annotations of cluster BK1:
•Start number 9 was manually annotated 1 time for cluster BK1.
•Start number 15 was manually annotated 1 time for cluster BK1.
•Start number 19 was manually annotated 1 time for cluster BK1.

Gene Information:

Gene: Anedea_43 Start: 21661, Stop: 22047, Start Num: 13
Candidate Starts for Anedea_43:
(Start: 10 @21646 has 4 MA's), (12, 21658), (13, 21661), (14, 21691), (22, 21757), (36, 21820), (44, 21883),

Gene: Braelyn_43 Start: 22198, Stop: 22599, Start Num: 10
Candidate Starts for Braelyn_43:
(Start: 10 @22198 has 4 MA's), (14, 22243), (21, 22306), (36, 22372), (44, 22435),

Gene: Braelyn_161 Start: 91079, Stop: 91384, Start Num: 19
Candidate Starts for Braelyn_161:
(Start: 19 @91079 has 5 MA's), (27, 91100), (31, 91112), (54, 91277), (58, 91301),

Gene: Daubenski_114 Start: 77002, Stop: 77292, Start Num: 30
Candidate Starts for Daubenski_114:
(1, 76717), (2, 76738), (3, 76753), (5, 76777), (11, 76873), (Start: 30 @77002 has 2 MA's), (42, 77092), (51, 77161), (58, 77191), (65, 77257),

Gene: Elmer_156 Start: 88649, Stop: 88993, Start Num: 15
Candidate Starts for Elmer_156:
(4, 88460), (6, 88475), (7, 88508), (8, 88535), (Start: 9 @88550 has 1 MA's), (Start: 15 @88649 has 1 MA's), (34, 88733), (50, 88856), (69, 88982),

Gene: Forrest_176 Start: 93990, Stop: 94280, Start Num: 19
Candidate Starts for Forrest_176:
(Start: 19 @93990 has 5 MA's), (32, 94017), (33, 94029), (39, 94074), (40, 94083), (44, 94113), (46, 94149), (66, 94269),

Gene: Gibbi_50 Start: 22359, Stop: 22634, Start Num: 28
Candidate Starts for Gibbi_50:
(Start: 28 @22359 has 1 MA's), (44, 22458), (45, 22464), (63, 22584),

Gene: JimJam_171 Start: 92515, Stop: 92871, Start Num: 18
Candidate Starts for JimJam_171:
(Start: 10 @92407 has 4 MA's), (Start: 18 @92515 has 1 MA's), (29, 92545), (43, 92647), (51, 92701), (53, 92704), (57, 92731), (70, 92860),

Gene: JimJam_149 Start: 86635, Stop: 86916, Start Num: 30
Candidate Starts for JimJam_149:
(Start: 30 @86635 has 2 MA's), (53, 86797), (67, 86905),

Gene: Leo04_45 Start: 23281, Stop: 23682, Start Num: 10
Candidate Starts for Leo04_45:
(Start: 10 @23281 has 4 MA's), (14, 23326), (44, 23518),

Gene: Magritte_112 Start: 72994, Stop: 73305, Start Num: 19
Candidate Starts for Magritte_112:
(Start: 19 @72994 has 5 MA's), (32, 73030), (33, 73042), (41, 73102), (48, 73168), (56, 73201), (60, 73228), (64, 73270),

Gene: MeganTheeKilla_153 Start: 84120, Stop: 84458, Start Num: 15

Candidate Starts for MeganTheeKilla_153:
(Start: 15 @84120 has 1 MA's), (16, 84123), (25, 84165), (37, 84234), (49, 84327), (51, 84333), (61, 84387), (68, 84450),

Gene: Mugiwara_178 Start: 93339, Stop: 93584, Start Num: 33
Candidate Starts for Mugiwara_178:
(Start: 19 @93300 has 5 MA's), (32, 93327), (33, 93339), (46, 93459), (62, 93546),

Gene: Navo_44 Start: 22093, Stop: 22494, Start Num: 10
Candidate Starts for Navo_44:
(Start: 10 @22093 has 4 MA's), (14, 22138), (21, 22201), (36, 22267), (44, 22330),

Gene: Navo_162 Start: 90460, Stop: 90765, Start Num: 19
Candidate Starts for Navo_162:
(Start: 19 @90460 has 5 MA's), (27, 90481), (31, 90493), (54, 90658), (58, 90682),

Gene: Persimmon_159 Start: 89776, Stop: 90081, Start Num: 19
Candidate Starts for Persimmon_159:
(Start: 19 @89776 has 5 MA's), (27, 89797), (31, 89809), (54, 89974), (58, 89998),

Gene: Persimmon_40 Start: 21025, Stop: 21426, Start Num: 10
Candidate Starts for Persimmon_40:
(Start: 10 @21025 has 4 MA's), (14, 21070), (44, 21262),

Gene: Persimmon_141 Start: 85415, Stop: 85672, Start Num: 35
Candidate Starts for Persimmon_141:
(17, 85337), (20, 85355), (Start: 35 @85415 has 1 MA's), (38, 85442), (55, 85553),

Gene: Spilled_47 Start: 22319, Stop: 22594, Start Num: 28
Candidate Starts for Spilled_47:
(Start: 28 @22319 has 1 MA's), (36, 22355), (44, 22418), (45, 22424), (63, 22544),

Gene: Tomas_48 Start: 24558, Stop: 24836, Start Num: 26
Candidate Starts for Tomas_48:
(24, 24552), (Start: 26 @24558 has 1 MA's), (36, 24597), (44, 24660), (45, 24666), (47, 24702),

Gene: TunaTartare_106 Start: 73259, Stop: 73636, Start Num: 9
Candidate Starts for TunaTartare_106:
(Start: 9 @73259 has 1 MA's), (14, 73304), (44, 73487), (57, 73559), (61, 73589),

Gene: UNTPL_74 Start: 50402, Stop: 50737, Start Num: 19
Candidate Starts for UNTPL_74:
(Start: 19 @50402 has 5 MA's), (32, 50423), (33, 50435), (52, 50576), (68, 50696), (70, 50732),

Gene: WhereRU_143 Start: 86167, Stop: 86424, Start Num: 35
Candidate Starts for WhereRU_143:
(17, 86089), (20, 86107), (Start: 35 @86167 has 1 MA's), (38, 86194), (55, 86305),

Gene: WhereRU_43 Start: 21615, Stop: 22016, Start Num: 10
Candidate Starts for WhereRU_43:
(Start: 10 @21615 has 4 MA's), (14, 21660), (44, 21852),

Gene: WhereRU_163 Start: 90528, Stop: 90833, Start Num: 19

Candidate Starts for WhereRU_163:
(Start: 19 @90528 has 5 MA's), (27, 90549), (31, 90561), (54, 90726), (58, 90750),

Gene: Wofford_45 Start: 23131, Stop: 23520, Start Num: 10
Candidate Starts for Wofford_45:
(Start: 10 @23131 has 4 MA's), (12, 23143), (14, 23176), (22, 23242), (23, 23245), (36, 23293), (44, 23356), (59, 23446),